Contract No. R002-006
"Renewable Electrolytic Nitrogen Fertilizer Production"

Submitted by Energy & Environmental Research Center
Principal Investigators: Ted R. Aulich & Dr. Junhua Jiang

PARTICIPANTS

Sponsor	**Cost Share**
Energy & Environmental Research Center Utilizing National Alternative Fuels Laboratory Program funding	$104,255
North Dakota Corn Utilization Council & Minnesota Corn Research & Promotion Council	$100,000
North Dakota Industrial Commission	$200,000
Total Project Cost	$404,255

Project Schedule – 12 months
Contract Date – October 21, 2008
Start Date – September 1, 2008
Completion Date – August 31, 2009

Project Deliverables:
Status Report: December 1, 2008
Status Report: March 1, 2009
Status Report – June 1, 2009
Final Report– August 31, 2009

OBJECTIVE/STATEMENT OF WORK:

This project will optimize processes for producing nitrogen fertilizers using biomass gasification-derived synthesis gas (biosyngas), nitrogen extracted from air and electricity. Because the processes have been demonstrated to operate with low-cost biosyngas rather than high-cost hydrogen derived from natural gas, they offer the potential for lower-cost and smaller-scale fertilizer production than achievable via the traditional natural gas-based route. Commercialization of the processes would enable regionally produced fertilizer to compete economically with imports and simultaneously develop a new fertilizer production industry.

The Energy & Environmental Research Center has been granted confidentiality for their application and reports with the understanding that a non-confidential version of each report and final report will be made available to the public.

STATUS

10/22/08